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## ANNKE AU-DX31NB4-V1-5OEP

# ANNKE 2MP Security Camera System User Manual

Model: AU-DX31NB4-V1-5OEP

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ANNKE 2MP Security Camera System. Please read this manual thoroughly before using the product to ensure proper setup and functionality. Keep this manual for future reference.

## 2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact ANNKE customer support.

- 1x 32-Channel 3K Lite DVR with 4 TB Hard Drive
- 24x 2MP Wired Cameras
- 24x BNC Cables (various lengths)
- 24x Screw Kits for camera mounting
- 7x 12V Power Adapters
- 6x 1-to-4 Power Splitters
- 1x HDMI Cable
- 1x Network Cable
- 1x USB Mouse
- 1x User Manual (this document)
- 1x Wall Sticker

# What's in the Box?



X1 DVR



X32 Camera



X1 Surveillance HDD



X9 Power Supply



X32 60 ft BNC Cable



X8 1-to-4 Splitter Cable



X1 HDMI Cable



X1 Network Cable



X1 Wall Sticker



X1 User Manual



X32 Screw



X1 USB Mouse

**Image 2.1:** Contents of the ANNKE Security Camera System package. This image displays the DVR, 24 cameras, a 4TB hard drive, various cables (BNC, HDMI, network), power adapters, power splitters, a USB mouse, and mounting screws, providing a visual checklist for users.

## 3. SETUP

Follow these steps to set up your ANNKE Security Camera System.

### 3.1. DVR Connection

- Connect the Hard Drive:** The 4TB HDD is pre-installed. Ensure it is securely connected inside the DVR.
- Connect to a Monitor:** Use the provided HDMI cable to connect the DVR to a monitor or TV.
- Connect the Mouse:** Plug the USB mouse into a USB port on the DVR.
- Connect to Network (Optional):** For remote viewing, connect the DVR to your router using the provided network cable.
- Power On:** Connect the DVR power adapter and plug it into an electrical outlet. The DVR will start automatically.

### 3.2. Camera Installation

- Mount Cameras:** Select appropriate locations for your cameras, ensuring optimal viewing angles and coverage. Use the provided screw kits to securely mount each camera.
- Connect BNC Cables:** Connect one end of a BNC cable to the camera's video output and the other end to an available video input port on the DVR.
- Power Cameras:** Use the 12V power adapters and 1-to-4 power splitters to provide power to all cameras. Connect the power splitters to the power adapters, and then connect the camera power inputs to the splitters.
- Adjust Camera Angle:** Once powered, adjust each camera's angle to cover the desired area.



**Image 3.1:** Overview of the ANNKE 32-channel DVR security system components, including the DVR unit, 24 wired cameras, and the 4TB hard drive. This image illustrates the main hardware elements that need to be connected during setup.

## 4. OPERATING INSTRUCTIONS

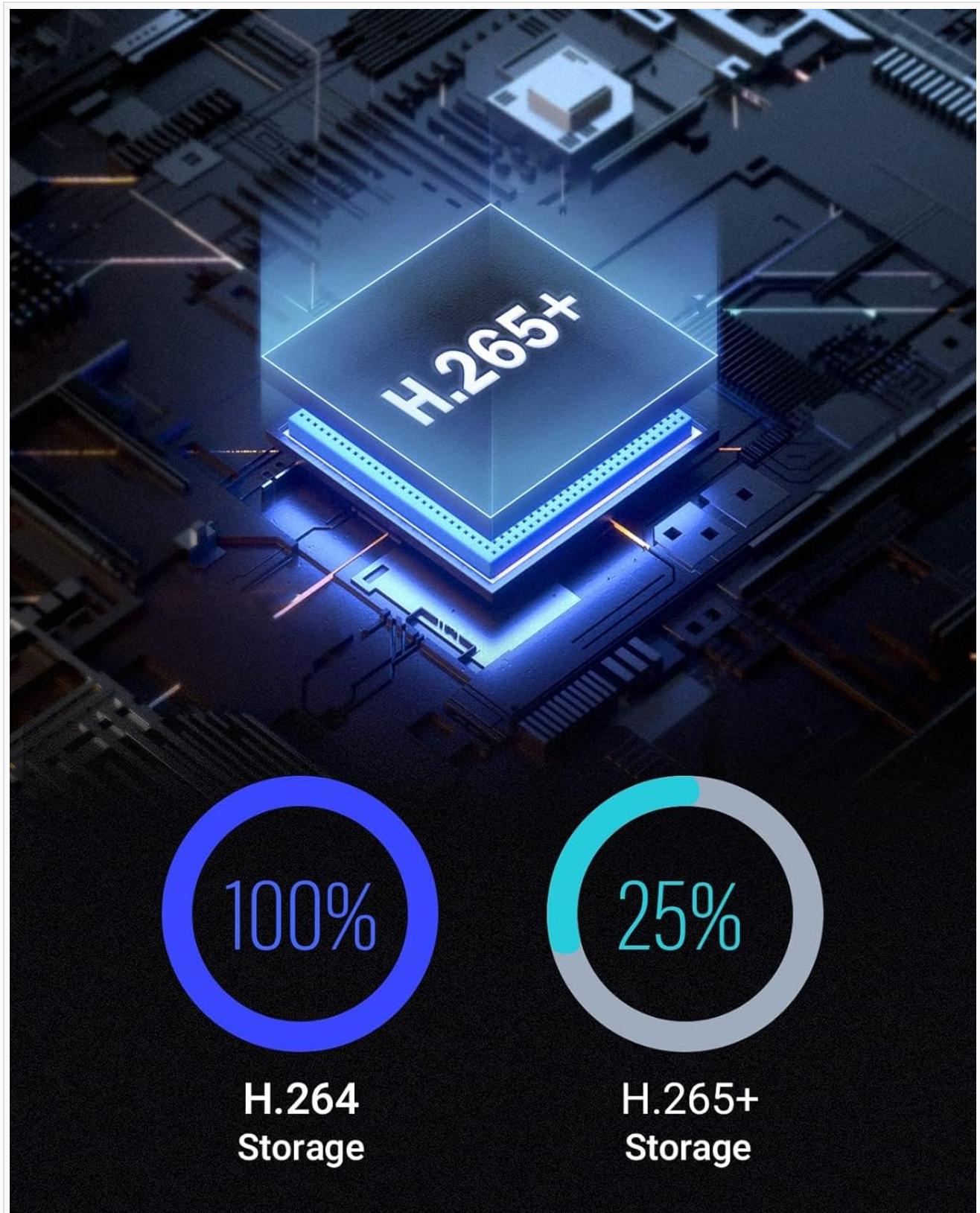
This section details the key features and operational aspects of your ANNKE Security Camera System.

### 4.1. Video Recording and Playback

The system supports continuous 24/7 recording to the pre-installed 4TB HDD. Advanced H.265+ compression

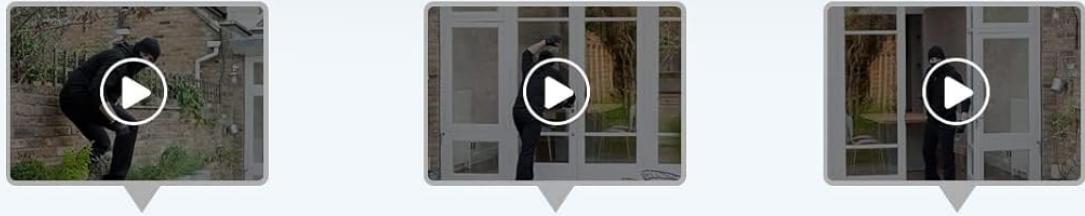
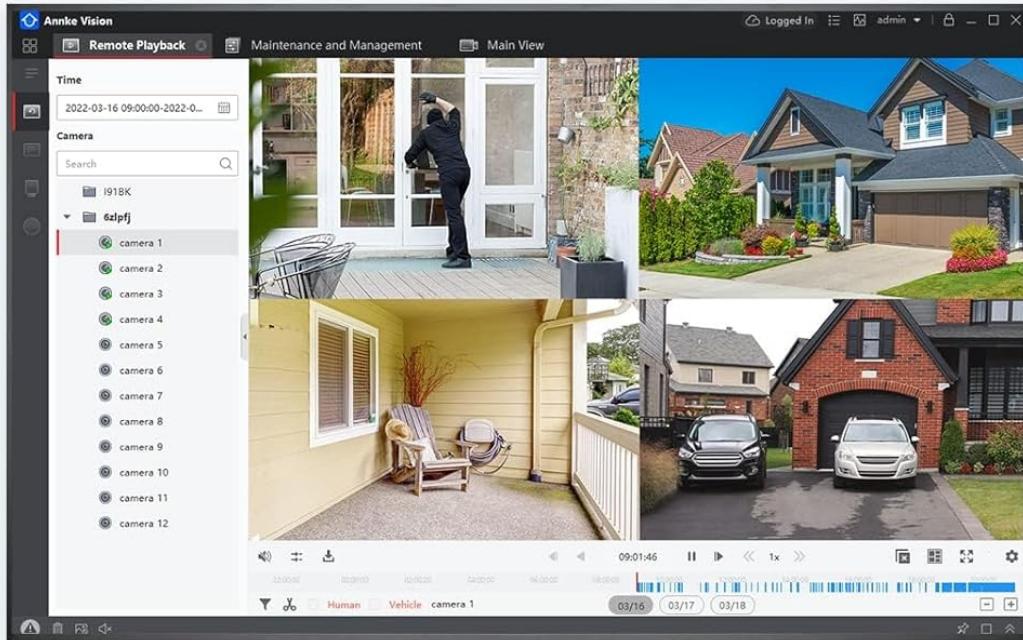
technology optimizes storage space.

- **Continuous Recording:** The DVR automatically records footage from all connected cameras.
- **H.265+ Compression:** This technology reduces file sizes, allowing for longer recording periods and more efficient bandwidth usage.
- **Smart Search:** Utilize the Smart Search function on the DVR or through the mobile application to quickly locate specific events in recorded footage based on motion or other triggers.



**Image 4.1:** Comparison of H.264 and H.265+ video compression. This graphic demonstrates that H.265+ requires significantly less storage (25%) than H.264 (100%) for the same amount of video data, enhancing recording efficiency.

# Smart Search



09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00

**Image 4.2:** User interface displaying the Smart Search feature. The image shows a multi-camera live view and a timeline with colored segments, indicating detected events for quick review and playback of specific incidents.

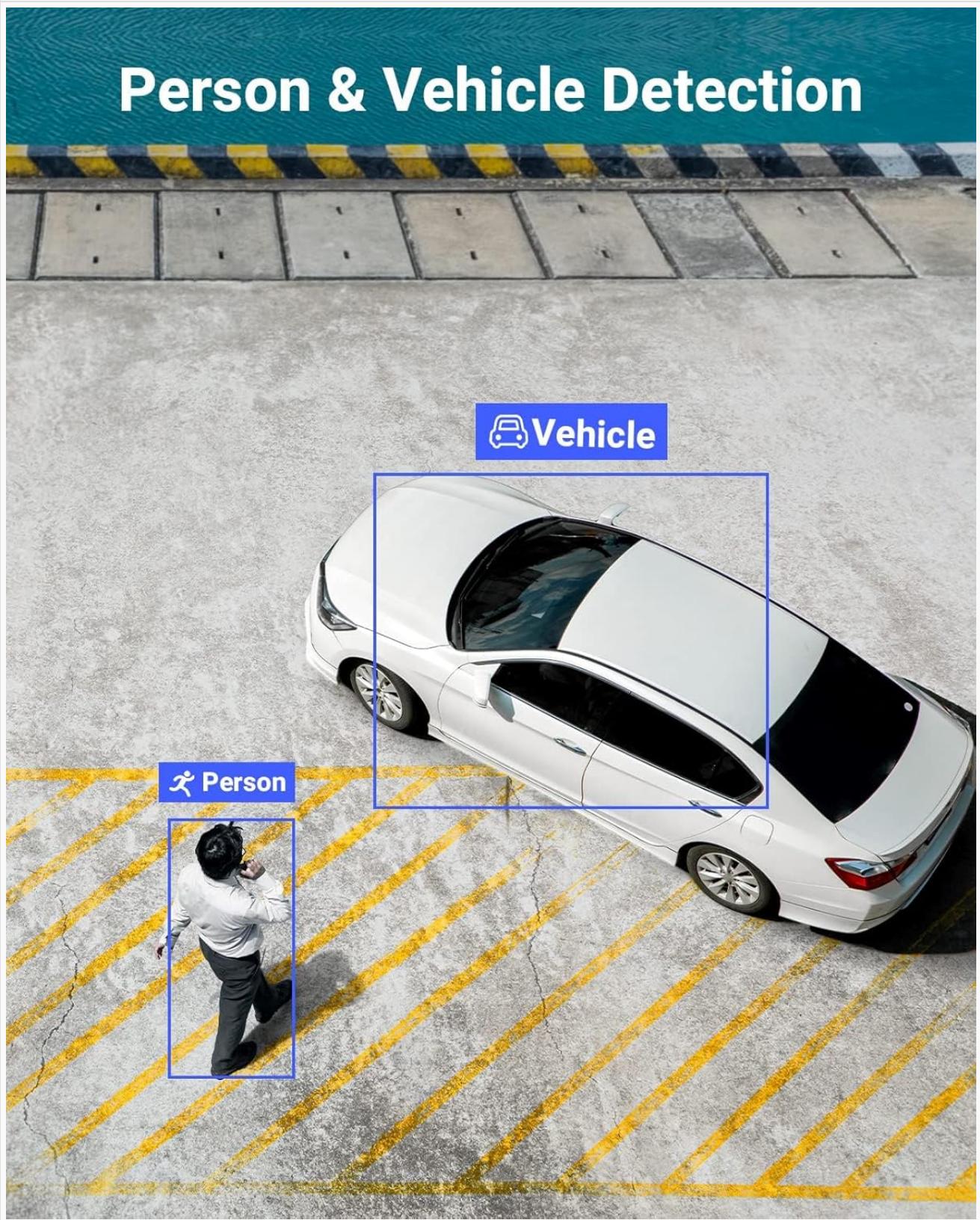
## 4.2. AI Motion Detection 2.0

The system incorporates advanced AI Motion Detection 2.0, capable of distinguishing between humans and vehicles, reducing false alarms.

- **Human & Vehicle Detection:** The system can accurately identify human and vehicle shapes, filtering out irrelevant motion from animals or environmental factors.
- **Customizable Detection Areas:** Define specific zones within the camera's view where motion detection

should be active.

- **Instant Alerts:** Receive immediate notifications on your connected device when a human or vehicle is detected in a monitored area.



**Image 4.3:** Demonstration of AI Person & Vehicle Detection. This image shows a person and a car in a parking lot, with distinct bounding boxes and labels ('Person', 'Vehicle') indicating the system's ability to differentiate between types of movement.

#### 4.3. Night Vision Modes

The cameras offer flexible night vision options, including infrared (IR) and full-color night vision, adapting to different lighting conditions.

- **Default IR Mode:** Provides clear black and white video in low-light conditions, with an effective range of up to 20 meters.
- **Smart Dual-Light:** Cameras automatically switch from IR to white light when human or vehicle motion is detected at night, providing full-color video and acting as a deterrent.
- **Manually Set Full Color:** Users can manually activate full-color night vision, utilizing the camera's white lights for illumination up to 30 meters.

## Flexible Night Vision Options

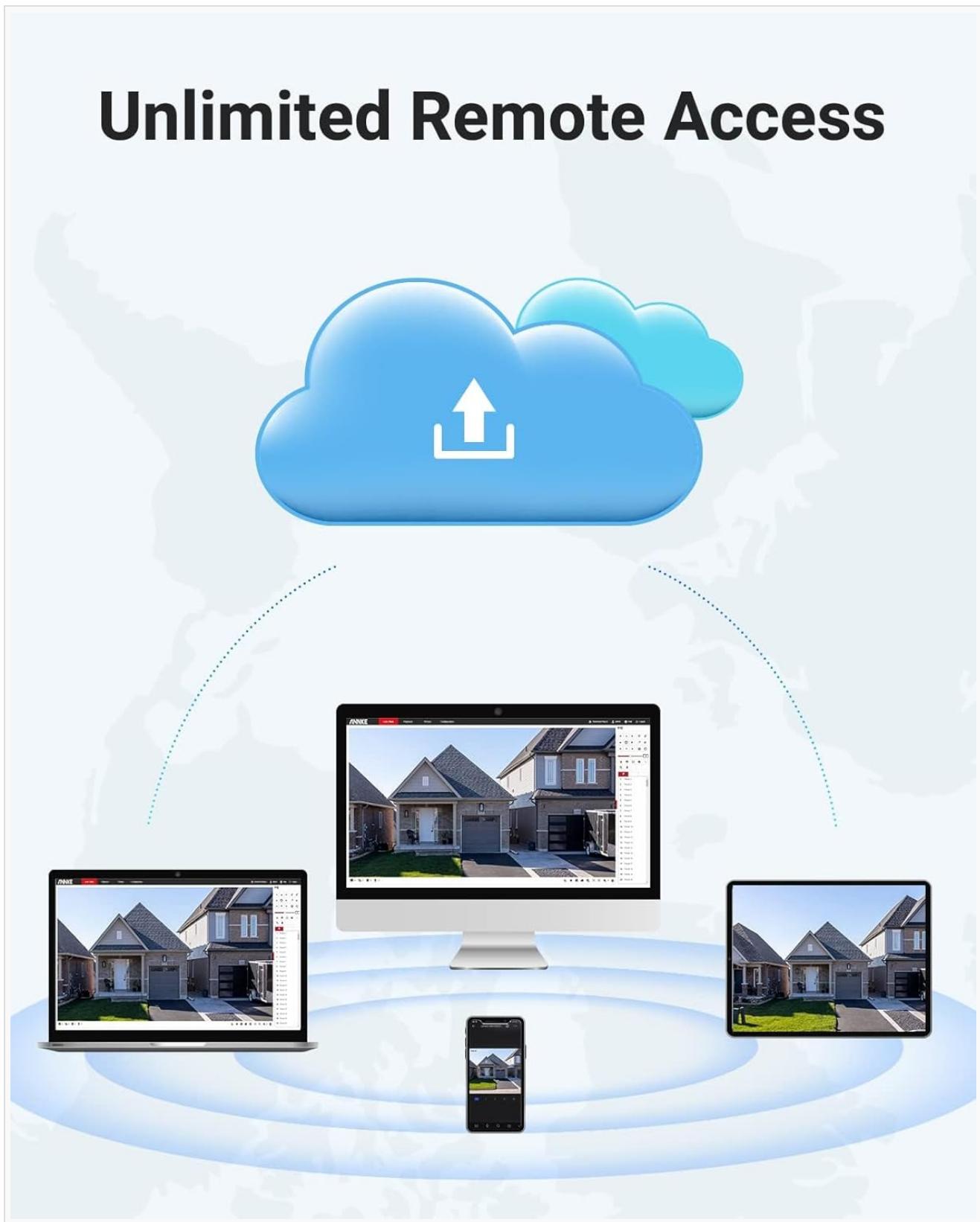


**Image 4.4:** Comparison of night vision modes. The top panel shows a scene in black and white using default IR mode, while the bottom panel displays the same scene in full color, achieved by manually activating the white light for enhanced detail at night.

#### 4.4. Remote Access

Access your security system remotely from anywhere using the ANNKE Vision mobile application or desktop client.

- **Live View:** Monitor live feeds from all cameras on your smartphone, tablet, or computer.
- **Playback:** Review recorded footage remotely.
- **Notifications:** Receive push notifications for detected events.



**Image 4.5:** Illustration of unlimited remote access. This image depicts a cloud symbol connected to a laptop, desktop computer, and smartphone, all displaying live camera feeds, signifying the ability to monitor your system from multiple devices anywhere with an internet connection.

## 4.5. Video Quality

The 2MP cameras deliver clear 1080P HD video resolution, ensuring detailed surveillance footage.

- **1080P HD Resolution:** Capture high-definition video at 1920x1080 pixels for clear identification of details.
- **3.6mm Fixed Focal Lens:** Provides a wide field of view suitable for general surveillance.



**Image 4.6:** Visual comparison of 1080P Full HD versus 720P video resolution. The image clearly demonstrates the superior detail and clarity offered by 1080P, making it easier to discern objects and faces.

## 5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your security system.

- **Camera Cleaning:** Periodically clean camera lenses with a soft, damp cloth to remove dust and smudges that may affect image clarity. Do not use harsh chemicals.
- **Firmware Updates:** Check the ANNKE website or mobile app for available firmware updates for your DVR and cameras. Keeping firmware updated ensures access to the latest features and security patches.
- **Cable Inspection:** Regularly inspect all cables (BNC, power, network) for any signs of wear, damage, or loose connections. Replace damaged cables immediately.
- **DVR Ventilation:** Ensure the DVR is placed in a well-ventilated area to prevent overheating. Keep vents clear of obstructions.
- **Data Backup:** Regularly back up important recorded footage to an external storage device if needed.

## 6. TROUBLESHOOTING

Refer to this section for solutions to common issues you might encounter.

- **No Video Output on Monitor:**

*Solution:* Check HDMI/VGA cable connections. Ensure the monitor is powered on and set to the correct input source. Restart the DVR.

- **No Camera Image:**

*Solution:* Verify that the camera is receiving power (check power adapter and splitter connections). Ensure the BNC cable is securely connected to both the camera and the DVR. Try connecting the camera to a different DVR port or using a different BNC cable.

- **Remote Access Not Working:**

*Solution:* Ensure the DVR is connected to the internet via the network cable. Check your router's internet connection. Verify network settings on the DVR and in the mobile application. Ensure port forwarding (if required by your network setup) is correctly configured.

- **Poor Image Quality:**

*Solution:* Clean the camera lens. Ensure the camera is properly focused (if applicable). Check BNC cable for damage or interference. Ensure sufficient lighting for optimal night vision performance.

- **DVR Not Recording:**

*Solution:* Check the status of the hard drive in the DVR's settings. Ensure the HDD is initialized and has sufficient free space. Verify recording schedules are correctly configured.

## 7. SPECIFICATIONS

Detailed technical specifications for the ANNKE 2MP Security Camera System.

### 7.1. DVR Specifications

- **Model Number:** AU-DX31NB4-V1-5OEP
- **Video Input:** 32 Channels (HDTVI/AHD/CVI/CVBS/IP adaptive)
- **IP Camera Input:** Up to 40 network cameras
- **Video Compression:** H.265 Pro+/H.265 Pro/H.265/H.264+/H.264
- **Encoding Ability:** Up to 3K Lite @ 20 fps
- **AI Features:** Deep learning-based motion detection 2.0 (all analog channels), Deep learning-based perimeter protection, 4-ch line crossing detection, 4-ch intrusion detection
- **Audio Input:** Audio via coaxial cable supported

- **HDD Support:** Up to 10 TB capacity per HDD (4TB included)
- **Connectivity:** Wired (Ethernet for network)
- **Power Source:** AC/DC
- **Dimensions (L x W x H):** 15.16 x 12.4 x 2.05 inches

## 7.2. Camera Specifications

- **Resolution:** 2 MP (1920 x 1080)
- **Lens:** 3.6 mm fixed focal lens
- **Night Vision:** Up to 20 m (66 ft) IR distance, Up to 30 m (98 ft) white light distance
- **Smart Night Vision:** IR light works normally, switches to white light when humans or vehicles are detected at night
- **Weatherproof Rating:** IP67 (Water and dust resistant)
- **Operating Temperature:** -40°F to 140°F (-40°C to 60°C)
- **Color:** Black

# IP67 Weatherproof & Robust

Extreme Temperature Resilience



**Image 7.1:** Durability features of the ANNKE camera. This image highlights the camera's IP67 weatherproof rating, showing it resistant to rain, and its robust design capable of operating in extreme temperatures ranging from -40°F to 140°F.

## 8. IMPORTANT SAFETY INFORMATION

- Use only power adapters specified for this product.
- Do not expose the product to water or moisture beyond its IP67 rating.
- Avoid placing the DVR in direct sunlight or near heat sources.
- Ensure proper ventilation for the DVR to prevent overheating.

- Do not attempt to disassemble or modify the product. Refer all servicing to qualified personnel.
- Keep cables organized and secured to prevent tripping hazards or damage.

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For further assistance, please visit the official ANNKE support website.